

WE CLAIM:

1. An antenna module for a portable electronic apparatus with a housing, said antenna module comprising:

5 a dielectric substrate adapted to be mounted in the housing and having a mounting surface formed with first and second contacts, said substrate further having a grounding layer that extends parallel to said mounting surface, said grounding layer being connected electrically to said first and second contacts via first
10 and second conductive vias formed in said substrate and extending from said mounting surface to said grounding layer, respectively;

15 a radiating element disposed on said mounting surface of said substrate and connected electrically to said first contact; and

20 a conductive grounding member mounted detachably on said mounting surface of said substrate, said grounding member having a first section that is connected electrically to said second contact such that said first section is connected electrically to said grounding layer via said second contact and said second conductive via, and a second section connected electrically to said first section and spaced apart from said radiating element in a direction transverse to said mounting
25 surface of said substrate.

2. The antenna module as claimed in Claim 1, wherein said second section of said grounding member is disposed

parallel to said mounting surface of said substrate,
and is transverse to said first section.

3. The antenna module as claimed in Claim 1, wherein
said grounding member is a metal strip.

5 4. The antenna module as claimed in Claim 1, wherein
said grounding member is a metal plate.